Title (en)

PROCESSING METHOD FOR LITHIUM ION BATTERY SCRAP

Title (de)

VERARBEITUNGSVERFAHREN FÜR LITHIUM-IONEN-BATTERIE-SCHROTT

Title (fr)

PROCÉDÉ DE TRAITEMENT DE DÉCHETS DE BATTERIE AU LITHIUM-ION

Publication

EP 3431619 A4 20191120 (EN)

Application

EP 17766741 A 20170315

Priority

- JP 2016052801 A 20160316
- JP 2017010482 W 20170315

Abstract (en)

[origin: EP3431619A1] A method for processing lithium ion battery scrap includes a leaching step of leaching lithium ion battery scrap and subjecting the resulting leached solution to solid-liquid separation to obtain a first separated solution; an iron removal step of adding an oxidizing agent to the first separated solution and adjusting a pH of the first separated solution in a range of from 3.0 to 4.0, then performing solid-liquid separation and removing iron in the first separated solution to obtain a second separated solution; and an aluminum removal step of neutralizing the second separated solution to a pH range of from 4.0 to 6.0, then performing solid-liquid separation and removing aluminum in the second separated solution to obtain a third separated solution.

IPC 8 full level

C22B 7/00 (2006.01); **B09B 3/00** (2006.01); **C22B 3/00** (2006.01); **C22B 3/26** (2006.01); **C22B 3/30** (2006.01); **C22B 3/38** (2006.01); **C22B 3/44** (2006.01); **C22B 15/00** (2006.01); **C22B 23/00** (2006.01); **C22B 26/12** (2006.01); **H01M 10/54** (2006.01)

CPC (source: CN EP KR US)

B09B 3/00 (2013.01 - CN); **B09B 3/80** (2022.01 - EP US); **C22B 1/005** (2013.01 - EP); **C22B 3/04** (2013.01 - CN); **C22B 3/08** (2013.01 - EP US); **C22B 3/22** (2013.01 - EP); **C22B 3/26** (2021.05 - US); **C22B 3/30** (2021.05 - EP US); **C22B 3/38** (2021.05 - US); **C22B 3/3846** (2021.05 - EP); **C22B 3/44** (2013.01 - CN EP KR US); **C22B 7/00** (2013.01 - CN KR US); **C22B 7/007** (2013.01 - EP US); **C22B 15/00** (2013.01 - US); **C22B 15/0065** (2013.01 - CN); **C22B 15/0067** (2013.01 - EP); **C22B 21/0023** (2013.01 - CN); **C22B 23/00** (2013.01 - KR US); **C22B 23/0407** (2013.01 - EP US); **C22B 23/0453** (2013.01 - CN); **C22B 23/0476** (2013.01 - EP); **C22B 26/12** (2013.01 - CN EP KR US); **C22B 47/00** (2013.01 - CN); **H01M 10/54** (2013.01 - CN EP KR US); Y02P 10/20 (2015.11 - EP US); Y02W 30/84 (2015.05 - EP KR US)

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Designated contracting state (EPC)

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